

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

SUREBEAM CORPORATION

Serial No. 09/912,576

Filed: July 24, 2001

FIXTURES FOR PROVIDING AN For:

> WITHIN IRRADIATION

ACCEPTABLE LIMITS

Date: November 13, 2002

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8 C TACKINET C TAOS OF THE STATE OF THE STATE

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Ellsworth R. Roston, Reg. No. 16,310

[256464.1]

COMMUNICATION TO THE PATENT OFFICE

Commissioner for Patents Washington, D.C. 20231

Dear Sir:

The following prior art references have been cited by the Examiner in the PCT application PCT/US02/23545 (our docket No. SUREB-61806) corresponding to U.S. application serial No. 09/912,576 (our docket No. SUREB-57333).

DATABASE WPI Section Ch, Week 200114 Derwent Publications Ltd., London, GB; Class-K08, An 2001-127961 XP002209102 & JP 2000 312708 A (NKK Plant Kensetsu KK) 14 November 2000 (2000-11-14) abstract; figures 4, 6

US 5 396 074 a (Peck Richard O et al.) 7 March 1995 (1995-03-07 cited in the application column 1, line 13 - column 1, line 18 column 4, line 52 - column 6, line 37; figures 1, 2

Relevant to Claim No. 1-52

Relevant to Claim No. 1-52

SERIAL NO.	ISSUED	TITLE	INVENTOR	
5,396,074	3/7/95	IRRADIATION SYSTEM UTILIZING CONVEYOR- TRANSPORTED ARTICLE CARRIERS	PECK, et al.	
WO 00/68955	11/16/00	ARTICLE IRRADIATION SYSTEM HAVING INTERMEDIATE WALL OF RADIATION SHIELDING MATERIAL WITHIN LOOP OF A CONVEYOR SYSTEM THAT TRANSPORTS THE ARTICLES	WILLIAMS, et al.	
WO 99/67793	12/29/99	ARTICLE IRRADIATION SYSTEM HAVING INTERMEDIATE WALL OF RADIATION SHIELDING MATERIAL WITHIN LOOP OF A CONVEYOR SYSTEM THAT TRANSPORTS THE ARTICLES	WILLIAMS, et al.	
WO 01/25754 A1	4/12/01	ARTICLE IRRADIATION SYSTEM IN WHICH ARTICLE TRANSPORTING CONVEYOR IS CLOSELY ENCOMPASSED BY SHIELDING MATERIAL	WILLIAMS, et al.	
WO 01/00249 A1	1/4/01	SYSTEM FOR, AND METHOD OF, IRRADIATING ARTICLES TO STERILIZE THE ARTICLES	ALLEN, et al.	
4,983,849	1/8/91	APPARATUS AND METHOD FOR PROMOTING UNIFORM DOSAGE OF IONIZING RADIATION IN TARGETS	THOMPSON, et al.	

Copies of the prior art references are enclosed.

Respectfully submitted,

FULWIDER PATTON LEE & UTECHT, LLP

By: Clewath R. Roston, No. 16,310

ERR:dmc:256464.1

Enclosures

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PTO/SB/21 (08-00) Approved for use through 10/31/2002. OMB 0651-0031 J.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 09/912,576 Application Number **TRANSMITTAL** 07/24/2001 Filing Date J. Thomas Allen **FORM First Named Inventor** (to be used for all correspondence after initial filing) Group Art Unit **Examiner Name** Attorney Docket Number SUREB-57333 Total Number of Pages in This Submission **ENCLOSURES** (check all that apply) After Allowance Communication Assignment Papers Fee Transmittal Form (for an Application) to Group Appeal Communication to Board Fee Attached Drawing(s) of Appeals and Interferences Appeal Communication to Group Licensing-related Papers Amendment / Reply (Appeal Notice, Brief, Reply Brief) Petition After Final Proprietary Information Petition to Convert to a Affidavits/declaration(s) Provisional Application Status Letter Power of Attorney, Revocation Change of Correspondence Other Enclosure(s) (please Extension of Time Request Address identify below): **Terminal Disclaimer** Return Postcard **Express Abandonment Request** Request for Refund Communication to the Patent Office Information Disclosure Statement CD, Number of CD(s) _ Certified Copy of Priority Document(s) Remarks Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm ELLSWORTH R. ROSTON, ESQ., REG. NO. 16,310 Individual name

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INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/23545

CLASSIFICATION OF SUBJECT MATTER C 7 A61L2/08 A23L A23L3/26 G21K5/10 H01J37/30 G21K5/08 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A23L G21K H01J A61L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. DATABASE WPI 1-52 Section Ch, Week 200114 Derwent Publications Ltd., London, GB; Class K08, AN 2001-127961 XP002209102 & JP 2000 312708 A (NKK PLANT KENSETSU KK) 14 November 2000 (2000-11-14) abstract; figures 4,6 Υ US 5 396 074 A (PECK RICHARD O ET AL) 1 - 527 March 1995 (1995-03-07) cited in the application column 1, line 13 -column 1, line 18 column 4, line 52 -column 6, line 37; figures 1,2 X Further documents are listed in the continuation of box C. Patent family members are listed in annex. " Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 27 September 2002 07/10/2002 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Edmueller, P Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

International Application No PCT/US 02/23545

		PC1/US 02/23545
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with Indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00 68955 A (TITAN CORP) 16 November 2000 (2000-11-16) page 2, line 28 -page 7, line 4; figures 1,2	1-52
A	WO 99 67793 A (TITAN CORP) 29 December 1999 (1999-12-29) page 2, line 15 -page 5; figures 1,2	1-52
A	WO 01 25754 A (TITAN CORP) 12 April 2001 (2001-04-12) page 6, line 5 -page 17, line 17; figures 1-7	1-52
A	WO 01 00249 A (TITAN CORP) 4 January 2001 (2001-01-04) page 4, line 6 -page 13, line 21; figures 1-4	1-52
A	US 4 983 849 A (THOMPSON CHESTER C ET AL) 8 January 1991 (1991-01-08) column 4, line 29 -column 6, line 23; figures 1-12	1-52
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/US 02/23545

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XP-002209102

AN - 2001-127961 [14]

AP - JP19990124109 19990430

CPY - NIKN

DC - K08 P34 V05 X25

FS - CPI;GMPI;EPI

IC - A61L2/08; G21K5/04; H01J37/30

MC - K08-X K09-B K09-D

- V05-J05 X25-P01 X25-P02

PA - (NIKN) NKK PLANT KENSETSU KK

PN - JP2000312708 A 20001114 DW200114 A61L2/08 006pp

PR - JP19990124109 19990430

XA - C2001-037928

XIC - A61L-002/08; G21K-005/04; H01J-037/30

XP - N2001-094490

- AB JP2000312708 NOVELTY A dose regulator (10) is arranged between an electron beam source and the substance to be processed so as to regulate irradiation of the electron beam to all points of a substance perpendicular to the direction of the radiated electron beam and to maintain the ratio of absorption of the electron beam passing through the dose regulator and substance and is given by a predetermined formula.
 - DETAILED DESCRIPTION The ratio of absorption by the dose regulator and substance to be processed is given by the following expression P1 x X1+P2 x X2, where P1 and P2 are respectively the density of material of the dose regulator and substance, and X1 and X2 are the distances traveled by the electron beam through the dose regulator and substance.
 - USE For irradiating electron beams for sterilizing drugs, sanitary goods, or foodstuffs.
 - ADVANTAGE Since the dose regulator is interposed between the electron beam source and substance to be processed and since the ratio of absorption of electron beam by dose regulator and substance is fixed, an electron beam of uniform dose is irradiated to the substance irrespective of the shape of the substance.
 - DESCRIPTION OF DRAWING(S) The figure shows the dose regulator.
 - Dose regulator 10
 - (Dwg.4/6)
- IW ELECTRON BEAM IRRADIATE APPARATUS FOOD DOSE REGULATE ELECTRON BEAM SOURCE SUBSTANCE PROCESS MAINTAIN ABSORB RATIO BEAM PASS THROUGH SUBSTANCE
- IKW ELECTRON BEAM IRRADIATE APPARATUS FOOD DOSE REGULATE ELECTRON BEAM SOURCE SUBSTANCE PROCESS MAINTAIN ABSORB RATIO BEAM PASS THROUGH SUBSTANCE

NC - 001

OPD - 1999-04-30

ORD - 2000-11-14

PAW - (NIKN) NKK PLANT KENSETSU KK

TI - Electron beam irradiation apparatus for sterilizing foodstuffs, has dose regulator between electron beam source and substance to be proc ssed to maintain absorption ratio of beam passing through it and substance